

L 20800-66 EWP(j)/EWT(m)/ETC(m)-6/T IJP(c) RM/WW

ACC NR: AP6005952 (A) SOURCE CODE: UR/0191/66/000/002/0040/0043

AUTHORS: Shevlyakov, A. S.; Bryk, M. T.

54
52
B

ORG: none

TITLE: Molecular composition and properties of fractions of suspended and block polyvinyl chloride

SOURCE: Plasticheskiye massy, no. 2, 1966, 40-43

TOPIC TAGS: polyvinyl chloride, polymer, polymer physical chemistry, thermal decomposition, molecular weight, polymer structure

ABSTRACT: Suspended and block polyvinyl chlorides, which differ considerably in molecular weight, are studied. The work was done to determine the effect of technological factors of polymerization of vinyl chloride on molecular composition, supermolecular structures, and physical state of PVC powder. The molecular weight of the starting specimens and of each fraction was determined viscosimetrically. The characteristic viscosity was determined for 0.2, 0.3, 0.4, and 0.5% solutions of PVC in cyclohexanone at $25 \pm 0.05^\circ\text{C}$ (see Fig. 1). The molecular weight was calculated by Z. Menšík's formula (Coll. czech. chem. comm., 21, 517,

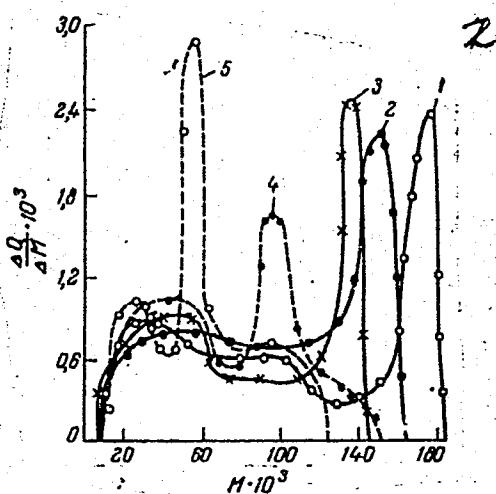
Card 1/3

UDC: 678.743.22.01:53

L 20800-66

ACC NR: AP6005952

Fig. 1. Differential curves of molecular-weight distribution of various polyvinyl chlorides:
1 - PF-op 324/1; 2 - PF-op 2/7;
3 - Imported polyvinyl chloride;
4 - block polyvinyl chloride;
5 - polyvinyl chloride_{Mg}.



1956). The decomposition temperature of the specimens and of their fractions was determined (see Fig. 2). The rate of absorption of plasticizers is determined. An experimental dependence of powder density upon molecular weight is found. The strength of films of the polyvinyl chloride is found to be 2.2-3.0 kg/mm².

Card 2/3

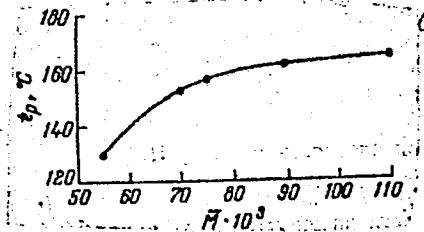
L 20800-66

ACC NR: AP6005952

Fig. 2. Decomposition temperature of PVC specimens purified by reprecipitation versus average molecular weight.

Orig. art. has: 3 tables and 6 graphs.

SUB CODE: 07 / SUBM DATE: none / ORIG REF: 004 / OTH REF: 003



Card 3/3

L 44367-66 EWT(m)/EWP(j)/T IJP(c) KM/WM

ACC NR: AP6023057

(A)

SOURCE CODE: UR/0191/66/000/004/0005/0007

AUTHOR: Shevlyakov, A. S.; Bryk, M. T.

363

ORG: none

TITLE: Properties of various brands of polyvinyl chloride and their fractions

SOURCE: Plasticheskiye massy, no. 4, 1966, 5-7

TOPIC TAGS: polyvinyl chloride, solid mechanical property, plastic strength, plastic coating

ABSTRACT: Physical properties and workability of suspended and powdered samples of L-4, L-7, and imported II polyvinyl chlorides were investigated. The dependences of decomposition temperature, film contraction, density, and mechanical strength upon molecular weight (10.10^3 - 180.10^3) of various polyvinyl chloride brands was graphed and tabulated. In all respects, the L-4 PVC proved superior to the imported II brand PVC. For the L-4 brand, the rate of swelling of films made of fractions varying in molecular weight (15,000-163,000) and the dependence of swelling upon molecular weight are graphed. It was found that up to molecular weight equal to 30,000 the glass point increases with the molecular weight. Orig. art. has: 7 figures, 1 table.

SUB CODE: 11/

SUBM DATE: none/

ORIG REF: 005/

OTH REF: 005

UDC: 678.743.22.01 : 53.01 : 539.3

Card 1/1 hs

L 46999-66 EWP(j)/EWT(m)/T IJP(c) RM
 ACC NR: AP6027272 (A)

SOURCE CODE: UR/0191/66/000/008/0009/0011

AUTHOR: Bryk, M. T.; Shevlyakov, A. S.; Puchkovskaya, G. A.

24
B

ORG: none

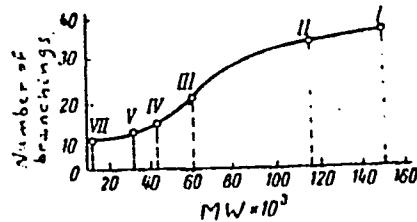
TITLE: Effect of the branching of polyvinyl chloride on its properties

SOURCE: Plasticheskiye massy, no. 8, 1966, 9-11

TOPIC TAGS: polyvinyl chloride, polymer structure

ABSTRACT: The change in the degree of branching of polyvinyl chloride (PVC) fractions obtained by fractional precipitation and its influence on the physicochemical and mechanical properties of the polymer were studied. The degree of branching of PVC samples reduced to polyolefins was determined by IR spectroscopy. Measurements of the optical density of the reduced PVC samples showed an increase in the concentration of methyl groups in PVC from the last fraction to the first (see Fig. 1).

Fig. 1. Change in the number of branchings per 1000 carbon atoms in PVC fractions. Roman numerals designate fraction numbers.



UDC: 678.743.22.01:543.422.4

Card 1/2

BRYK, Ts.

Cand Tech Sci - (diss) "Study of wear-resistance of sulfide coatings obtained by seam welding [naplavka]. Applicable to the repair involving agricultural techniques." Moscow, 1961. 25 pp; (Moscow Order of Lenin Agri Academy imeni K. A. Timiryazev); 200 copies; price not given; (KL, 7-61 sup, 232)

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000307120016-1

BRYK, V. Ye.

"Cholesteatomas of the Cisterna Pontis Lateralis." Sub 31 Oct 51, Acad
Med Sci USSR.

Dissertations presented for science and engineering degrees in Moscow
during 1951.

SO: Sum. No. 480, 9 May 55.

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000307120016-1"

BRYK, V. Ye.

Some characteristics of the clinical course of cholestratoma of the lateral cistern of pons varoli. Vop. neirokhir. 16, No 4, 1952.

BRYK, V.Ye.

Replacement of defects of the dura mater with lyophilized homo-
grafts [with summary in English]. Vop.neirokhir. 22 no.5:43-47
S-0 '58. (MIRA 12:1)

1. Neurohirurgicheskoye otdeleniye 2-y khirurgicheskoy kliniki
Moskovskogo oblastnogo nauchno-issledovatel'skogo klinicheskogo
instituta im M.F. Vladimirsogo.

(DURA MATER, transpl.,
lyophilized homografts (Rus))

BRYK, V.Ye.

Pseudocholesteatoma (cholesteatomatous pearls) following a past history of tuberculous meningitis. Probl.tub. no.1:66-70 '62.

(MIRA 15:8)

1. Iz neyrokhirurgicheskogo otdeleniya (zav. - starshiy nauchnyy sotrudnik V.Ye. Bryk) Moskovskogo oblastnogo nauchno-issledovatel'skogo instituta imeni M.F. Vladimirovskogo (dir. P.M. Leonenko).
(MENINGES--TUBERCULOSIS) (STREPTOMYCIN) (BRAIN--TUMORS)

KUKUSHKIN, L.I.; BRYK, V.Ye.

Apparatus for suturing the dura mater. Trudy NIIEKHAI no.5:105-109
'61.
(MIRA 15:8)

1. Iz Nauchno-issledovatel'skogo instituta eksperimental'noy
khirurgicheskoy apparatury i instrumentov i Moskovskogo oblastnogo
nauchno-issledovatel'skogo klinicheskogo instituta im. M.F.
Vladimirskogo.

(SUTURES) (DURA MATER--SURGERY)

BRYK, V.Ye. (Moskva, Universitetskiy pr., d.4, korp. 5, kv.112)

Measured skeletal traction using the author's splint in dislocations and displacements of the cervical vertebrae. Vest.khir. (MIRA 15:10) 89 no.8:80-83 Ag '62.

1. Iz nevrokhirurgicheskogo otdeleniya (rukoved. - st. nauchnyy sotrudnik V.Ye.Bryk) Moskovskogo oblasthogo nauchno-issledovatel'skogo klinicheskogo instituta im. M.F.Vladimirskego (dir.-P.M. Leonenko).

(SPLINTS (SURGERY)
(VERTEBRAE, CERVICAL—DISLOCATION)

BRYK, V.Ye., kand. med. nauk (Moskva)

Compound treatment of acute trauma of the cervical spine
and spinal cord. Vop. neirokhir. 27 no.2:10-12 Mr-Ap '63.
(MIRA 17:2)

1. Neyrokhirurgicheskaya klinika (zav. V.Ye. Bryk)
Moskovskogo oblastnogo nauchno-issledovatel'skogo klini-
cheskogo instituta imeni M.F. Vladimirskego, Moskva.

PRESSMAN, L.P., doktor med. nauk, red.; MAKHOV, N.I., prof. red.; ZAKHAR'YAN, S.T., st. nauchn. sotr., red.; BRYK, V.Ye., kand. med. nauk, red.; ZVIRAZHIN, N.M., red.; KLEVINGER, I.M., red.; SMIRNOV, B.V., red.; KHUSIER, M.A., kand. med. nauk, red.

[Problems of practical medicine] Voprosy prakticheskoi meditsiny; sbornik trudov. Moskva, 1963. 254 p.
(VIM 17:9)

1. Moscow. Moskovskiy oblastnoy nauchno-issledovatel'skiy institut imeni N.F.Vladimirskego. 2. Soveduyushchiy Pervoy khirurgicheskoy klinikoy Moskovskogo oblastnogo nauchno-issledovatel'skogo klinicheskogo instituta im. N.F.Vladimir-skogo (for Makarov).

BRYK, V.Ye., kand. med. nauk

Use of urea in neurosurgical practice. Vop. neirokhir. 28 no.1:
35-39 Ja-F '64. (MIRA 18:1)

1. Neyrokhirurgicheskaya klinika (zav. V.Ye. Bryk) Moskovskogo
oblastnogo nauchno-issledovatel'skogo klinicheskogo instituta
imeni M.F. Vladimirovskogo (direktor P.M. Leonenko), Moskva.

BRYK, V.Ye., kand. med. nauk

Treatment of patients with acute craniocerebral traumas.
Trudy Inst. im. N.V. Sklif. 8:12-20 '63.

(MIRA 18:6)

1. Iz neyrokhirurgicheskogo otdeleniya (rukovoditel' - starshiy nauchnyy sotrudnik V.Ye. Bryk) Moskovskogo oblastnogo nauchno-issledovatel'skogo klinicheskogo instituta imeni Vladimirovskogo (dir. - P.M. Leonenko).

SLAVUTSKIY, Aleksandr Kel'manovich, kand. tekhn. nauk, dots.;
YELENOVICH, Aleksey Savel'yevich, kand. tekhn. nauk,
dots.; KURDENKOV, Boris Ivanovich, inzh.; ROMADANOV,
Georgiy Afanas'yevich, kand. tekhn. nauk; Prinimali
uchastiye: BRYKALOV, I.I., inzh.; MASHIN, K.P., inzh.;
SOROKIN, I.G., inzh.; SHCHERBAKOV, Ye.I., inzh.;
IL'INA, L.N., red.

[Road toppings made of local materials] Dorozhnye otdel'nye
iz mestnykh materialov. Moskva, Transport, 1965. 270 p.
(MIRA 18:7)

SOV/84-58-4-17/48

AUTHORS: Matviyenko, A., Candidate of Economic Sciences,
Suleymanov, M., Chief, Department of Economics and Planning,
Banadik, A., Engineer-Economist, and
Brykalov, V., Engineer (Kiyev)

TITLE: Advantages of Cooperation Between Repair Establishments
(Vygody kooperirovaniya remontnykh predpriyatiy)

PERIODICAL: Grazhdanskaya aviatsiya, 1958, Nr 4, p 18 (USSR)

ABSTRACT: The authors refer to the duplication and inadequate utilization of facilities and premises existing at the Aircraft Repair Bases (ARB) and the Aircraft Maintenance Workshops (LERM) of the same airport. A redistribution of tools and equipment is advocated to reduce the LERM to pure maintenance work. The ARB, on the other hand, should take over all repair work. In connection with the introduction of new flying equipment, a merger of the LERM and the ARB into a single "technical base" is suggested for the future. Two diagrams accompany the text, showing the comparative utilization of premises and equipment in the LERM and ARB of the same airport.

Card 1/1

1. Aircraft--Maintenance 2. Airports--Organization

BRYKALOV, V.

32(1)

SOV/84-59-9-47/66

AUTHOR: Matviyenko, A., Candidate of Economic Sciences, Chief Teacher, and Brykalov, V., Chief Engineer

TITLE: Once More on Aircraft Fueling

PERIODICAL: Grazhdanskaya aviatsiya, 1959, Nr 9, pp 28-29 (USSR)

ABSTRACT: The authors further the idea expressed by engineers P. Bogatyrev and Ye. Kukhterin (this periodical, 1958, Nr 11), who suggested to replace the existing mobile tanking facilities on airports by stationary fuel pipelines on the surface or underground, from fuel storage tanks to mobile or stationary tanking racks at the fueling area. The capacities of available standard mobile fueling facilities have become inadequate to serve heavy modern airliners. It would take about 1 1/2 hours for a TZ-16 tank truck to refuel one Tu-114 aircraft, time for own refueling and travel excluded. Huge tank trucks, like the English 45,600-liter Thompson ✓

Card 1/2

Once More on Aircraft Fueling

SOV/84-59-9-47/66

VR, are too expensive, cumbersome and, while on the airfield, constitute obstructions. The best solution for Soviet civil aviation is to employ a system of underground fuel pipelines. On the whole, it is two times cheaper than the mobile fueling facilities and has a six times longer service life time. The pipeline can be laid simultaneously with the laying of water lines, electric cables, etc. Mobile fueling facilities may be used only where airliners stand idle for longer than 4 hours, for maintenance and ground servicing, which, however, is not likely to take place now that Aeroflot endeavors to reduce such idling of aircraft. The first step is already made: aircraft fueling from stationary installation is already done on one airport of the Kazakhskoye upravleniye GVF (Kazakhskoye administration of the GVF.) It is time to stop talking and start getting things done. ASSOCIATION: Kiyevskiy institut GVF (Kiyev Institute of the GVF) (Matviyenko).

Card 2/2

SHKARANDA, I.T., kand. tekhn. nauk, dotsent; KOTOV, M.P., prof.;
BRYKALOVA, I.N., inzh.

Investigating the counterflow tanning method. Izv. vys. ucheb.
zav.; tekhn. leg. prom. no.2:103-109 '63. (MIRA 16:10)

1. Kiyevskiy tekhnologicheskiy institut legkoy promyshlennosti.
Rekomendovana kafedroy tekhnologii kozhi.

BRYKALOW, N.; MOROZ, A.

Role of a dispatcher in assembling trains, p. 428. PRZEGLAD KOLEJOWY
(Wydawnictwa Komunikacyjne) Warszawa. Vol. 6, no. 11, Nov. 1954

SOURCE: East European Accessions List, (EEAL), Library of Congress,
Vol. 4, no. 12, December 1955

CZERNIELEWSKI, Antoni; BRYKALSKI, Dariusz; DEPCZYK, Danuta

Experimental studies on the absorption through the skin of
the Cr51 radioisotopes. Przegl. derm. 50 no.5:411-420 '63.

1. Z Kliniki Dermatologicznej AM w Lodzi Kierownik: prof.
dr J. Lutowiecki Z Instytutu Medycyny Pracy w Lodzi Dyrektor:
doc. dr J. Nofer.

(CHROMIUM ISOTOPES) (SKIN) (ABSORPTION)
(PERMEABILITY)

MARKOWICZ, Jozef; MATCZAK, Alicja; BRYKCYNSKA, Halina; GOLBA, Jan; SZCZYGIELSKA, Jadwiga; BIERNACKI, Marian

Epidemic focus of psittacosis in Szczecin. Polski tygod. lek. 14 no.9:
385-390 2 Mar 59.

l. Z Katedry Chorob Zakaznych P.A.M. w Szczecinie; kierownik doc.
dr med. Marek Eisner, z Katedry Mikrobiologii Lekarskiej A. M. w
Lublinie, kierownik: prof. dr med. Jozef Parnas oraz z Wojewodzkiej
Stacjji Sanitarno-Epidemiologicznej W szczecinie; dyrektor; dr Zbigniew
Dworak. Adres: Jozef Markowicz P.A.M. Klinika Chorob Zakaznych Szczecin,
ul Arkonska 4.

(ORNITHOSIS, epidemiol.
in Poland (Pol))

BRYKOCZYNsKA, M.; FENKOWSKI, A.; KLAMBOROWSKI, J.

Center of Scientific Information and Publications in the Institute
of Computers of the Polish Academy of Sciences. Akt probl inf
dok 7 no.3:52-58 My-Je '62.

BRYKĘŻYNSKA, W.

Polish Technical Abstracts
No. 4, 1953
Agriculture, Food Processing
Industry, Forestry, Fisheries

2471

* Brykężyska W. Indications Concerning Field Experiments. C0152160
"Wskazówki do przeprowadzania doświadczeń polowych". Warszawa, 1947, Państw. Zegl. Hod. R. 12a, 169, 297 pp., 27 figs., 23 tabs.

The purpose of field experiments is the comparative study of the quantity and quality of crop yields in field cultivation conditions. Methodics of experiments. Methods of conducting and of computing the experiments. Technical instructions. Variety experiments. Fertilization experiments. Cultivation experiments. Detailed instruction on cultivation in carrying out variety experiments.

BRYK CZYNSKA, W.

"Organization and tasks of the estimation of seeds in Poland"

p. 799 (Nowe Rolnictwo, Vol. 7, no. 18, Sept. 1958, Warsaw, Poland)

Monthly Index of East European Accessions (EEAI) LC, Vol. 8 No. 1, Jan. 59.

BRYK CZYNSKA, W.

Principles of the registration of sugar-beet varieties. p. 57.

GAZETA CUKROWNICZA. (Stowarzyszenie Naukowo-Techniczne Inżynierów i Techników Przemysłu Rolnego i Spożywczego i Centralny Zarząd Przemysłu Cukrowniczego) Warszawa, Poland. Vol. 61, no. 2, February 1959

Monthly List of East European Accession (EEAJ) LC, Vol. 8, no. 7, July 1959

Uncl.

FRIKOCZINSKA, W.

The economic value of sugar-beet varieties. p. 130

GAZETA CUKROWNICZA. (Stowarzyszenie Naukowo-Techniczne Inżynierów i Techników Przemysłu Rolnego i Spożywczego i Centralny Zarząd Przemysłu Cukrowniczego) Warszawa, Poland. Vol. 61, no. 4, April 1959.

Monthly List of European Accessions (EEAI) LC, Vol. 8, no. 8
August 1959.

Uncl.

BRYK CZYNSKI J.
CA

The influence of potassium on the accumulation of sugar in the sugar beet. J. Brykczynski. *Gaz. Ciepłownicza* 1939, Vol. No. 3, 85-91. *Chem. Zeit.* 1940, III, 561—From a review of earlier investigations the conclusion is reached that the effect of K on the sugar beet is a complex one and depends on its solv., its osmotic value, and its effect on the osmotic pressure. Its action depends (1) on its influence on assimilation by facilitating the supplying of CO₂ to the chromatoplasts, its radioactive effect, the part it plays in photosynthesis and its influence on the leaf color with the consequent improved utilization of solar energy, (2) on an increase in the osmotic pressure, i. e., on a facilitation of the movement of the sugar from the leaves to the roots, and (3) on an inhibition of the action of hydrolases.

M. G. MUNOZ

15

11.2.11.4 METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000307120016-1"

POLAND/Chemical Technology - Chemical Products and Their
Application - Carbohydrates and Refinement.

H.

Abs Jour : Ref Zhur - Khimiya, No 9, 1958, 30407

Author : Brykczynski, J.

Inst :
Title : The Grading of Sugar Beets with Reference to Storage
Losses.

Orig Pub : Gaz Cukrownicza, 59, No 7, 194-196, 1957,

Abstract : The problem of the determination of sugar losses in
sugar beets during storage is discussed with a view to
the selection of an evaluation method by which the most
valuable grades could be determined. A description of
the method proposed by the author is given, together
with yields and sugar content data for various sugar-
beet producing countries for the period 1946-1955.

Card 1/1

POLAND / Cultivated Plants. Plants for Technical Use. Oil Plants. Sugar Plants. M

Abs Jour : Ref Zhur - Biologiya, No 6, 1959, No. 25002

Author : Brykczynski, J.

Inst : Not given

Title : Distribution of the Sugar-Beet's Pollen

Orig Pub : Roczn. nauk rolniczych, 1957, A75, No 2,
245-253

Abstract : On specially selected seed plots, the effectiveness of crossing white-root beets with red-root beets by natural pollination was studied. A strong effect of the alien pollen is manifested only in the immediate vicinity of the pollinated beet; with the increase of distance, it is quickly dissipated,

Card 1/2

POLAND / Cultivated Plants. Plants for Technical Use. M
Oil Plants. Sugar Plants.

Abs Jour : Ref Zhur - Biologiya, No 6, 1959, No. 25002

although it is preserved for a long time to
a very insignificant extent. -- G. Yu. Dinesman

Card 2/2

136

BRYKCYNSKI, Jerzy

High-crop sugar beets. Postepy nauk roln 10 no. 2: 119-128
Mr-Ap '63.

BRYKCYNSKI, Mieczyslaw

Congenital hip dislocation in children. Polski tygod. lek. 14 no.39:
1761-1766 28 Sept 59.

1. (Z Oddzialu Chirurgii Dzieciecej Wojewodzkiego Specjalistycznego
Szpitala Dzieciecego w Szczecinie; ordynator: dr Stanislaw Pawlukiewicz).
(HIP, fract. & disloc.)

BRYKHOVSKIY, V.K.; NIKITIN, Ye.Ye.; OVCHINNIKOVA, M.Ya.

Probability of nondiabatic transition near the turning point. Zhur. eksp.
i teor. fiz. 47 no.2:750-756 Ag '64. (MIRA 17:10)

1. Institut khimicheskoy fiziki AN SSSR.

BYKHOVSKIY, Yu. S. (Engr.)

"Measuring the Thickness of Nonelectroconductive Coatings on Metallic Nonmagnetic Base."

report presented at the 13th Scientific Technical Conference of the Kuybyshev Aviation Institute, March 1959.

BRYKIN, Aleksey Alekseyevich; TYL'KIN, M.N., red.

[Construction workers' labor productivity] Proizvoditel'-
nost' truda rabochikh-stroitelei. Tula, Tul'skoe knizh-
noe izd-vo, 1963. 38 p. (MIRA 17:9)

BRYKIN, K.I.

Storage and heat treatment of beechwood. Der.prom. 4 no.4:
22-23 Ap '55. (MLRA 8:6)

1. L'vovskiy lesotekhnicheskiy institut.
(Wood--Preservation) (Beech)

BRYKIN, K.I., Cand Tech Sci -- (diss) "Heat treatment of beech plywood raw material." Len, 1958. 14 pp with graphs (Min of Higher Education USSR. Len Order of Lenin Forest ^{Engineering} Technical Academy im S.M.Kirov), 150 copies (KL,43-58, 116)

BRYKIN, K.I., kand.tekhn.nauk

Woodworking industries in Poland. Bum.i der.prom. no.1:61-62
Ja-Mr '62. (MIRA 15:5)

1. Lvovskiy lesotekhnicheskiy institut.
(Poland--Woodworking industries)

BRYKIN, L., mashinist pod"yema; DEMIN, B., krepil'shchik; PERSHIN, V.,
slesar'; YAS'KO, Ya., gornyy master; VIGDERGAUZ, I.; KRYLOVSKAYA, L.

New living quarters, old mistakes. Sov.shakht. 10 no.4:34-35
Ap '61. (MIRA 14:9)

1. Redaktor shakhtnoy gazety "Slava Rodine" (for Vigdergauz).
2. Korrespondent zhurnala "Sovetskiy shakhter" (for Krylovskaya).
(Housing)

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000307120016-1

Brykin, P.A.
BRYKIN, P.A.

Losses in working time in topographical and geodetic operations.
(MIRA 10:10)
Geod.i kart. no.8:68-72 Ag '57.
(Cartography)

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000307120016-1"

3(4)
AUTHOR:

Brykin, P. A.

SOV/6-59-3-2/16

TITLE:

Results of Investigations and Field Testing of High-precision
Optical Theodolite TVO-1 (Rezul'taty issledovaniy i polevykh
ispytaniy vysokotchnogo opticheskogo teodolita TVO-1)

PERIODICAL:

Geodeziya i kartografiya, 1959, Nr 3, pp 11-21 (USSR)

ABSTRACT:

The experimental model of the new high-precision optical theodolite TVO-1 (Ref 1) was built in 1957 by the "Aerogeoinstrument" Factory. It serves for the measurement of horizontal angles and zenith distance on primary triangulation points. In summer 1958 it was carefully examined and field-tested. The respective results are given. The construction characteristics of this instrument are specified and the laboratory tests to which it was submitted are briefly described. Tests in the field were carried out simultaneously with the TVO-1 under discussion and the big triangulation theodolite. Tests lasted from August 22 to September 16 and from October 9 to 26 on points of the triangulation net of the 2nd and 3rd order. The side length of the triangles amounted to up to 20 km. A short description of the observations made is given and the results are shown in 9 tables. It is shown that the values of one and

Card 1/2

Results of Investigations and Field Testing of
High-precision Optical Theodolite TVO-1

SOV/6-59-3-2/16

the same angle are within the range of 3" and the results of angle measurements confirm the possibility of employing the TVO-1 for observations on points of primary triangulation. It is furthermore shown that less work and less time are needed under otherwise equal conditions, as compared to the use of the big triangulation theodolite. There are 4 figures, 9 tables, and 1 Soviet reference.

Card 2/2

3(4)

AUTHOR:

Brykin, P. A.

SOV/6-59-9-9/19

TITLE:

~~Some Results in the Development of Standards for the Principal Processes of Topographic-geodetical Work~~

PERIODICAL:

Geodeziya i kartografiya, 1959, Nr 9, pp 34-39 (USSR)

ABSTRACT:

Two and a half years ago, the Normativno-issledovatel'skaya laboratoriya (NIL) (Research Laboratory of Standards) of the TsNIIGAiK started the development of technically founded production standards for the principal processes in topographic-geodetical work. This development was carried out by the NIL together with the groups for technical standardization of aerogeodetic services. A general standardizing method was first developed. The classification and structure of production processes intended for technical standardization is pointed out here. Various methods of determining the expenditure of working time are described. More than 2,100 exactly timed photographs were made in field- and indoor-service operations in 1957-58. About 800 standards were then developed. Individual groups of these photographs are described in detail. The remaining standards will be worked out early in 1960.

Card 1/2

Some Results in the Development of Standards for the
Principal Processes of Topographic-geodetical Work

SOV/6-59-1-9/19

It is pointed out that the development of unified standards
for all topographic-geodetical operations is carried out by
various organizations, and is not coordinated in a satis-
factory manner. There are 3 tables.

Card 2/2

BRYKIN, P.A.; KARGASHINA, V.A.

Technical basis of production standards for work in photo-
graphic laboratories. Geod.1 kart. no.3:55-61 Mr '60.
(MIRA 13:6)
(Photography--Production standards)

BRYKIN, P.A.; VOROSHILOV, L.A.

Labor saving improvements in the construction of trihedral
signals. Geod. i kart. no.4;19-24 Ap '60. (MIRA 13:8)
(Triangulation towers)

BRYKIN, P.A.; VOROSHILOV, L.A.

Consultation on the establishment of norms for topographico-geodetic work. Geod. i kart. no.7:56-61 Jl '60. (MIRA 13:9)
(Surveying—Production standards)

BRYKIN, P.A.

Effect of the asymmetry of trihedral signals on angular measure-
ments. Geod. i kart. no. 4:7-11 Ap '61. (MIRA 14:5)
(Triangulation signal towers) (Angle)

BRYKIN, P.A.

Use of the verifying telescope in angular measurements from tri-hedral signals. Geod.i kart. no.6:10-17 Je '61. (MIRA 14:6)
(Theodolites)

BRYKIN, P.A.; RYCHKOV, A.I., red.

[Establishing norms for geodetic and topographical work.]
Normirovaniye geodezicheskikh i topograficheskikh rabot.
Moskva, Nedra, 1964. 280p. illus. (Moscow. TSentral'nyi
nauchno-issledovatel'skii institut geodezii, aeros'emki i
kartografii. Trudy, no.162).

(MIRA 17:9)

BRYKIN, P.A.; GERASIMOV, N.T.

Economic efficiency of field course and office point identification.
Geod. i kart. no.8:54-57 Ag '64.

(MIRA 17:11)

L 2921-66 EWT(1)/EWA(d)/T/EED(b)-3 IJP(c) JXT(CZ)/GW
AM4048673 POCO EXPLOITATION UR/

Brykin, P. A.

48

③+1

Standardization of geodetic and topographic work (Normirovaniye geodesicheskikh i topograficheskikh rabot) Moscow, Izd-vo "Nedr", 1964. 280 p. illus., biblio., charts. Errata slip inserted. 3000 copies printed. Editor: A. I. Rychkov; Editor of the publishing house: V. I. Brezhnikov; Technical editor: V. V. Romanova; Proofreader: E. A. Kuznetsova

Series note: Moscow, Tsentral'nyy nauchno-issledovatel'skiy institut geodezii, aerosfemki i kartografii. Trudy, vyp. 162

TOPIC TAGS: geodesy, mapping, photogrammetry, stereotopography, time standardization, topography

PURPOSE AND COVERAGE: In the first part of this monograph, an initial attempt is made to provide fundamental methodologic indications concerning the treatment of technically based standards of time for operations and of time norms and development for production processes in geodetic and topographic work. Technically based standards of time for the elements of geodetic and topographic processes first

Card 1/3

L 2921-66
AM4048673

developed by the Narmativno-issledovatel'skaya laboratoriya of the subject institute are presented in the second part of the monograph. The monograph also contains descriptions of the organizational-technical conditions of the work for which the standards of time have been established and a brief discussion of questions in the organization of studies and of labor.

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Ch. VII. Standards of time and of numerical composition for processes in topographic work in the office --
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SUB CODE: ES

SUBMITTED: 24 Mar 64

NR REF Sov: 029

OTHER: 000

DATA FILE: 100-164

PS
Card 3/3

BRYKIN,S.V., inzhener; TRIFONOV,S.M., inzhener

Vibration forms for making reinforced concrete culvert sections.
Transp. stroi. 5 no.5:16-18 Jl '55. (MIRA 8:12)
(Culverts)

BRYKIN, S.V., inzhener; SUVOROV, V.A., inzhener.

From experience in building the Ulan Bator-Dzamyn Ude railroad.
Transp.stroi. 6 no.2:14-16 F '56. (MLRA 9:6)
(Mongolia--Railroads)

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000307120016-1

BRYKIN, S.V., inzhener.

Problem of gaps in rail joints. Transp.stroi. 6 №.12±21-23 D '56.
(MLRA 10:3)
(Railroads--Rails)

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000307120016-1"

BRYKIN, S.V.

Some results and tasks of scientific research work in the field
of transportation construction. Transp. stroi. 8 no.8:8-12
Ag '58. (MIRA 11:9)

1. Direktor Vsesoyuznogo nauchno-issledovatel'skogo instituta
transportnogo stroitel'stva. Chlen-korrespondent Akademii
stroitel'stva i arkhitektury SSSR.
(Railroad research)

LEVIN, B.I.; ANPILOGOV, R.G.; BOGATYREV, A.F.; BRYKIN, S.V.; GOL'DMAN,
M.S.; DAVYDOV, G.V.; ZADORIN, B.M.; ZERENINOV, A.M.; LAPUSHKIN,
A.D.; LEDNEV, V.I.; MURAV'YEV, V.I.; OGANESOV, I.S.; PETROV,
N.I.; SIDORIN, V.K.; SOLDATOV, Ye.G., obshchiy red.; KARAMYSHEV,
I.A., red.; PESKOVA, L.N., red.; KHITROV, P.A., tekhn.red.

[Manual for studying the economics of construction in the
transportation industry] V pomoshch' izuchaiushchim ekonomiku
transportnogo stroitel'stva. Moskva, Gos.transp.zhal-dor.
izd-vo, 1959. 271 p. (MIRA 12:7)
(Construction industry) (Transportation)

BRYKIN, S.V.

New bridges in Sweden. Transp. stroi. 11 no.1:52-54 Ja '61.

(MIRA 14:1)

1. Chlen-korrespondent Akademii stroitel'stva i arkhitektury SSSR.
(Sweden—Bridges)

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000307120016-1

BUKREYEV, P., inzh.; BRYKIN, V., arkitektor; RASKOPIN, G., arkitektor

Standard plans for construction in rural areas of the
Russian Federation. Zhil.stroi. no.1:6 Ja '60.
(MIRA 13:5)

(Architecture, Domestic--Designs and plans)

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000307120016-1"

BRYKIN, V., arkitektor

Housing construction in the Golodnaya Steppe. Zhil.stroi. no.7:
9-11 Jl '60. (MIRA 13:7)
(Golodnaya Steppe--Architecture, Domestic)

L 23296-66

ACC NR: AP6012127 SOURCE CODE: UR/0413/66/000/007/0046/0046

INVENTOR: Dol'nikov, Yu. I.; Bryksin, V. I.; Kushnirov, R. I.;
Yakobson, Ya. S.; Delov, V. I.; Sysin, A. Ya.; Tikhomirov, I. S.

ORG: none

TITLE: Device for studying movements in the large joints of upper
extremities. Class 30, No. 180296

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 7,
1966, 46

TOPIC TAGS: biomechanics, prosthesis

ABSTRACT: An Author Certificate has been issued for a device used to
study movements in the large joints of the upper extremities. It
consists of splints and sensors for recording angular parameters. To
obtain quantitative assays of extremity movements and their biotechnological
characteristics, it is operated in the form of sleeves which
are linked by splints fitted with hinged-joint potentiometers. These
are aligned above the center of, or coaxially to, joint rotation.
A variation of the above device is equipped with a rotation sensor
attached to the shoulder assembly. This sensor is operated in the form
of two sleeves mounted on bushings. The wrist is fitted with a forearm

Card 1/2

UDC: 615.47:612.746-087

L 23296-66

ACC NR: AP6012127

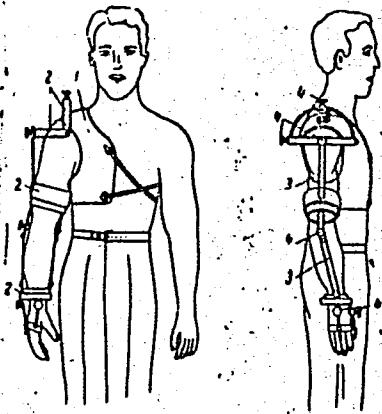


Fig. 1. Diagram of the device.

1 - Shoulder Assembly; 2 - sleeves;
3 - splints; 4 - potentiometers.

rotation sensor with hinged rods attached to the hand. This assembly permits the desired attachment and separate recording of movements in mutually perpendicular planes (see Fig. 1). Orig. art. has: 1 figure.

[CD]

SUB CODE: 06/ SUBM DATE: 07Jan65/ ATD PRESS: 4230

Card 2/2

KALABINA, A.V.; BRYKINA, A.S.; TOMILOVA, L.V.; KUDRAYAVTSEVA, V.D.;
MINAKOVA, T.T.

Synthesis and transformations of vinyl aryl ethers. Report
No.13: Synthesis of α -phenyl vinyl ethers of phenol, o-cresol,
and thymol. Izv. Fiz.-khim. nauch.-issl. inst Irk. un. 4
no.2:111-125 '59. (MIRA 16:8)

(Ethers) (Phenol condensation products)

ALIMARIN, I.P.; BELYAVSKAYA, T.A.; ERYKINA, G.B.

Complex formation of ~~stannum~~ by means of ion exchange.
Vest. Mosk. un. Ser. 2: Khim. 20 no. 5:69-72 S-O '65.

(MIRA 18:12)

1. Kafedra analiticheskoy khimii Moskovskogo gosudarstvennogo
universiteta. Submitted Nov. 24, 1964.

DIMAKOV, P.V. & BRYKINA, O.V.

Effect of different amounts of sunflower oil on the excretion of
vitamine B₂ and G with urine in children. Vop. pit. 24 no.2:29-32
Mr-Ap '65. (MIRA 18:8)

1. Gidel detskogo pitaniya Instituta pitaniya AMN SSSR.

S/078/62/007/009/001/007
B144/B101

AUTHORS: Savitskaya, Ya. S., Tvorogov, N. N., Kalabukhova, S. V.,
Brykina, L. S.

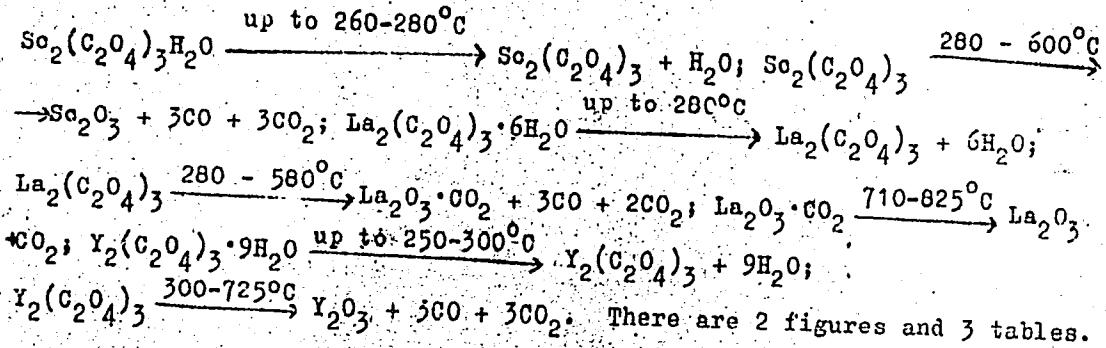
TITLE: Thermal decomposition of yttrium, scandium, and lanthanum-oxalates

PERIODICAL: Zhurnal neorganicheskoy khimii, v. 7, no. 9, 1962, 2029-2033

TEXT: Y, Sc and La oxalates are synthetized from the corresponding chlorides and oxalic acid. Their decomposition in air was investigated by thermographic, thermogravimetric, and gas analyses. Decomposition proceeds with evolution of CO₂ and CO. Thermal analysis reveals 3 decomposition stages: 1) separation of crystal water; 2) gradual decomposition of oxalates with evolution of CO and CO₂; 3) formation of oxides. The exothermic effects occurring predominantly at >300°C are due to the oxidation of CO to CO₂ in air, this being proved by the absence of exothermic effects when Y oxalate decomposes in He atmosphere. The decomposition patterns suggested are:

Card 1/2

Thermal decomposition of yttrium,...

S/078/62/007/009/001/007
B144/B101

SUBMITTED: November 27, 1961

Card 2/2

L 8948-65 EWT(1)/EWT(m)/EWT(v)/EEC-l/FCC/EEC-l/EEC(t)/T/EWA(h) Po-l/Pe-5/Pq-l/
Pae-2/Peb/Pi-4 IJP(c)/SSD/AFWL GN/WS

ACCESSION NR: AP4043500 5/0293/64/002/004/0623/0627

B

AUTHOR: Bry^kina, L. S.; Golovin, B. M.; Landman, A. P.;
Osipenko, B. P.; Fedoseyeva, O. P.

TITLE: Effect of high energy protons on nuclear-radiation semi-conductor detectors

SOURCE: Kosmicheskiye issledovaniya, v. 2, no. 4, 1964, 623-627

TOPIC TAGS: high energy proton, surface barrier transistor, nuclear radiation detector, proton bombardment, irradiation dose, silicon nuclear radiation detector

ABSTRACT: A study of the effect of high-energy protons on surface-barrier nuclear-radiation detectors made of n-type silicon has been conducted. Preliminary data on changes in some characteristic features of these detectors during bombardment with protons having an energy of about 650 Mev are given. The samples of surface-barrier detectors had a specific resistance of 200-300 ohm·cm and a resolution of 1-3% during registration of α -particles with energies of

Cord. 1/3

L 89b0-65

ACCESSION NR: AP4043500

4.8 Mev. The relationships between pulse amplitude, signal-to-noise ratio, capacity, energy resolution, and the irradiation dose received by the detector were studied during the experiments. Fourteen samples were irradiated. The measurements proved that proton-beam densities varied from 1.7×10^8 to 6×10^8 proton/cm², and that the maximum irradiation dose was approximately 2×10^{13} proton/cm². It can be concluded from the data obtained that in detectors whose surfaces were electrochemically and chemically polished, no noticeable change in radiation-damage stability occurs and that detector parameters vary only slightly at doses up to 5×10^{11} proton/cm². If the doses exceed this value, the detector characteristics change considerably faster with the increase of dose. The lifetime of surface-barrier silicon detectors for operation in Earth's radiation belts¹² was theoretically estimated by means of a model. Orig. art. has: 7 figures and 3 formulas.

ASSOCIATION: none

Card 2/3

L 8948-65

ACCESSION NR: AP4043500

SUBMITTED: 03Feb64

SUB CODE: . NP

ATD PRESS: 3105 ENCL: 00

NO REF Sov: 002 OTHER: 093

Card 3/3

L 63564-65 EWT(1)/EWT(m)/EWG(v)/EEC-h/EEC(t)/EWA(h)/FCG Pe-5/Pq-h/Pae-2/
Feb/P1-4/Po-h GW

ACCESSION NR: AP5015681

UR/0293/65/003/003/0499/0502
621.376.234:539.12

505

AUTHOR: Brykina, L. S.; Vasilev, V. S.; Golovin, B. M.; Landsman, A. P.; Osipenko, B. P.; Fedoseyeva, O. P.

TITLE: The effect of high-energy protons on semiconductor detectors of nuclear radiation. II. Diffusion-drift detectors¹⁹

SOURCE: Kosmicheskiye issledovaniya, v. 3, no. 3, 1965, 499-502

TOPIC TAGS: semiconductor detector, nuclear radiation, diffusion drift detector, silicon N I P detector, proton bombardment

ABSTRACT: Eighteen silicon N-I-P detectors with 0.3-mm sensitive films and four with 2-mm layers were subjected to proton bombardment of 2×10^9 — 8×10^9 proton/cm²-sec with a maximum dose of 5×10^{13} proton/cm². With the 0.3-mm type, investigation was made of detector output pulse height, reverse current, energy resolution, and detector capacitance as a function of the radiation dose. The results show that the immunity of the diffusion-drift detectors is approximately equal to that of the surface-barrier type; i.e., no substantial deterioration of parameters was observed for doses as high as 10^{12} proton/cm². With the 2-mm type, the changes in

Card 1/2

L 63564-65

ACCESSION NR: AP5015681

the electrical structure were determined by measuring the detector photoresponse before and after bombardment. It was found that after a dose of 8×10^{12} proton/cm² the sensitive area of the detector was reduced, becoming practically negligible after a dose of 5×10^{13} proton/cm². Orig. art. has: 4 figures. [BD]

ASSOCIATION: none

SUBMITTED: 16Dec64

ENCL: 00

SUB CODE: NP, EC

NO REF SOV: 003

OTHER: 000

ATD PRESS: 4020

Card 2/2

POLIKARPOVA, R.V.; ERYKINA, M.M.

Determining the degree of conformance of the beds of horizon DI
of the Minn'bylevo region of the Romashkino field. Nauch.-tekhn.
sbor. po dol. nefti. no.20:45-50 '63. (MIRA 17:6)

BRYKINA, M.M.; MAKSIMOV, M.M.; POLIKARPOVA, R.V.; RYBIN, F.S.;
SMIRNOVA, A.A.

Comparison of the properties of reservoir rocks in level
D₁ of the central section of the Minnibayev region
based on field data [redacted] data obtained with the EI-S
electric integrator. Nauch-tekh. sbor. po dob. nefti.
no.21:3-13 '63. (MIRA 17:5)

1. Vsesoyuznyy neftegazovyy nauchno-issledovatel'skiy institut.

BRYKINA, M.M.; GATTENBERGER, Yu.P.; KORNILAYEV, V.N.; MIKHAYLOVSKIY, N.K.;
POLIKARPOVA, R.V.; RYBIN, F.S.

Improving methods for the field and geological study of oil reservoir
rocks in order to monitor and control development. Nauch.-tekhn. sbor.
po dob. nofti no.22:76-79 '64. (MIRA 17:9)

1. Vsesoyuznyy neftegazovyy nauchno-issledovatel'skiy institut.

GATTENBERGER, Yu.P.; BRYKINA, M.N.

Geological-field evaluation of the petroleum recovery from pools while they are being developed as exemplified by a study made in the Konstantinovka field. Trudy VNII no.38: 72-91 '63. (MIRA 17:9)

BRYKINA, Ye. P., SHIREKHER, S.M., SHUKO, V.D., SKURATOV, S.M., Docent, STREPIKHEYEV,
A.A., MUROMOVA, R.S., KACHINSKAYA, O.N.

"The Heat of Combustion of Lactams and Amino Acids," a paper given at the
All-University Scientific Conference "Lomonosov Lectures," Vest. Mosk. Un., No. 8,
1953

Translation U-7895, 1Mar 56

BRYKINA, E.P.

10

USSR

✓ Heat of combustion of heterocyclic compounds. I.
Methods. S. M. Skuratov, A. A. Strepikchev, O. N.
Kachinskaya, S. M. Sutker, and E. P. Brykina. *Uchenye
Zapiski Moskov. Gosudarstv. Univ.* No. 164, 73-85 (1953);
Referat. Zhur. Khim. 1954, No. 37433. — The set-up for this
detn. comprising a new calorimetric bomb and special ther-
mometers used are described. M. Hosen

БРЫКИНА, Е. П.

USSR/ Chemistry - Organic chemistry

Card 1/1 Pub. 22 - 26/49

Authors : Strepikheyev, A. A.; Skuratov, S. M.; Kachinskaya, O. N.; Moromova, R. S.;
Title : Brykina, Ye. P.; and Shtekher, S. M.
The intensity of lactam

Periodical : Dok. AN SSSR 102/1, 105-108, May 1, 1955

Abstract : Experiments were conducted to determine the heat of combustion of certain lactams and to estimate their intensity on the basis of data obtained. The simplest and most direct way of determining the intensity of the cycle was found to be the comparison of the combustion heats of a monomeric cyclic compound to that of a homologous polymer. Another way of determining the intensity is also described. Six references: 4 USSR; 1 USA and 1 Fr. (1947-1954). Tables.

Institution : The Moscow State University im. M. V. Lomonosov

Presented by : Academician I. L. Knunyants, December 13, 1954

BRYKINA, Ye. P.

USSR/ Chemistry - Organic chemistry

Card 1/1 Pub. 22 - 33/62

Authors : Strepikheyev, A. A.; Skuratov, S. M.; Shtekher, S. M.; Muromova, R. S.;
Brykina, Ye. P.; and Kachinskaya, O. N.

Title : Interaction of amino- and carboxyl groups in amino acids

Periodical : Dok. AN SSSR 102/3, 543 - 545, May 21, 1955

Abstract : It is known that the interaction of atoms in a molecule or the interaction of molecules in a substance in different phase and states of aggregation is one of the most important factors in determining the properties of chemical compounds including their reactivity. Results obtained during the determination of heats of combustion of several amino acids of the fatty series having the amino group in different arrangements relative to the carboxyl are presented. The interaction of amino and carboxyl groups in amino acids was also used as a basis in determining the heat of combustion of salts of alkylenediamines with alkylenedicarboxylic acids. Three references: 2 USSR and 1 French (1927-1954). Tables.

Institution : The M. V. Lomonosov State University, Moscow

Presented by: Academician I. L. Knunyants, December 13, 1954

BRYKNER, H.; KOWALEWSKI, A.; ZGIERSKI, J.

"Problem of the Instruction of Fishermen." p. 13, (GOSPODARKA RYBNA,
Vol. 6, No. 2, Feb. 1954. Warszawa, Poland.)

SO: Monthly List of East European Accession, (EEAL), LC,
Vol. 3, No. 12, Dec. 1954, Uncl.

BRYKOV, A. I.

Attempts in the proof of Euclid's fifth postulate in the course
"fundamentals of geometry." Uch. zap. GGPI no.8:65-98 '58.
(MIRA 13:8)

(Parallels (Geometry))

BRYKOV, A. I., SEMYANISTYY, V. I.

Concerning: N.N. Nikitin and A.I. Fetisov's new geometry textbook
for grades six through nine, published in 1956. Uch. zap. GGPI
no.8:99-106 '58. (MIRA 13:8)

(Geometry--Textbooks)
(Nikitin, N.N.) (Fetisov, A.I.)

ROZANOV, V., kand. tekhn. nauk; BRYKOV, A., insh.

Exhaust brakes. Avt. transp. 37 no.12:31-33 D '59.
(MIRA 13:3)
(Motortrucks—Brakes)

ROZANOV, V.G., kand.tekhn.nauk; BRYKOV, A.S.

Deceleration brakes for motorbuses, heavy motortrucks and trailers.
Avt. prom. no.4:5-8 Ap '58. (MIRA 11:6)

1.Gosudarstvennyy soyuznyy ordena Trudovogo Krasnogo Znameni nauchno-
issledovatel'skiy avtomobil'nyy i avtomotornyy institut.
(Motortrucks--Brakes) (Motorbuses--Brakes) (Trucktrailers--Brakes)

ROZANOV, V., kand. tekhn. nauk; BRYKOV, A., inzh.
5

Brakes. Za rul. 17 no.9:20-21 S '59.

(MIRA 13:1)

1.Gosudarstvennyy soyuznyy ordena Trudovogo Krasnogo Znameni
nauchno-issledovatel'skiy avtomobil'nyy i avtomotornyy institut.
(Automobiles--Brakes)

ROZANOV, V.G., kand.tekhn.nauk; BRYKOV, A.S.

Inertia brakes with an electromagnetic drive for trailers. Avt.
prom. no.6:16-22 Je '60. (MIRA 13:8)

I. Gosudarstvennyy soyuznyy ordena Trudovogo Krasnogo Znameni
nauchno-issledovatel'skiy avtomobil'nyy i avtomotornyy institut.
(Truck trailers--Brakes)

BRYKOV, A.S.; ORZHEVSKIY, I.S.

Preventing wheel locking caused by braking. Avt.prom. no.9:46-47
S '60. (MIRA 13:9)

1. Gosudarstvennyy soyuznyy ordena Trudovogo Krasnogo Znameni nauchno-
issledovatel'skiy avtomobil'nyy i avtomotornyy institut.
(Automobiles--Brakes)

L 8932-65 EWT(d)/FSF(h)/FS-2/EWT(1)/EPA(b)/FS(v)-3/EEC(k)-2/EMG(v)/EWA(d)/
 EEC(c)-2 Pn-4/Po-4/Pe-5/Pq-4/Pac-4/Pg-4/Pae-2 IJP(c)/AFTC(a)/AFETR/ESD(dp)/
 ACCESSION NR: AP4043492 ASD(p)-3/ESD/AFMD(t)/S/0293/64/002/004/0539/0552
 ESD(si)/ASD(a)-5/ESD(gs) GW/AST

AUTHOR: Bry*kov, A. V.

TITLE: On the possibility of increasing the accuracy of determining
space vehicle trajectories by decreasing the effect of correlated er-
 rors

SOURCE: Kosmicheskiye issledovaniya, v. 2, no. 4, 1964, 539-552

TOPIC TAGS: space trajectory, correlated error, statistical method,
 measurement data processing method, correlated measurement

ABSTRACT: The possibility is studied of more accurately determining
space vehicle trajectories by using statistical methods to process
 correlated measurements. The motion equations of the space vehicle
 are taken in the form

$$f_i(q_1, q_2, \dots, q_N, w_1, w_2, \dots, w_m) = r_i, \quad (1)$$

where $q_j (j = 1, 2, \dots, N)$ are initial conditions of the motion $r_i (i = 1, 2, \dots, n)$
 are measurable parameters of the motion, and $w_v (v = 1, 2, \dots, m)$ are

Card 1/3

L 8932-65

ACCESSION NR: AP4043492

certain parameters characterizing the acting forces. The problem of determining the initial flight conditions is reduced to the solution of a linear system of conditional equations

$$A\Delta q = \Delta r. \quad (2)$$

where Δq , Δr , and A are certain matrices with elements in the form $q_j - q_j^*$ and $r_i - r_i^*$. Here q_j^* is a certain approximate value of q_j , r_i is an observed value of r_i , and r_i^* is the value of r_i calculated from (1) for $q_j = q_j^*$. Application of statistical methods to the solution of system (2) is presented using the simplest example for the processing of two correlated measurements. Fundamental laws characterizing the effectiveness of statistical methods are derived. The results obtained are generalized for $N > 1$ and $n > N + 1$, on the basis of which the following deduction is made: To decrease or eliminate the effect of correlated errors, it is necessary that the elements in the columns of matrix A be distinct. Since such conditions in problems on determining space vehicle orbits are always satisfied, the following final conclusion is made: There exists a possibility of effective application of statistical methods of processing of correl-

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ated measurements to the determination of space vehicle trajectories not only in the case when the probabilistic characteristics of measurements are known but also in the most important case in practice, when they are only approximately known. An example is given where quantitative estimates of effectiveness of statistical methods for the solution of the problem are presented. Orig. art. has: 23 formulae and 8 figures.

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